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plymouthgov.org

RECEIVED

January 24, 2001

JAN 26 2001

Jim Loock, Chief Electric Engineer Electric Division Public Service Commission of Wisconsin 610 N. Whitney Way - P.O. Box 7854 Madison, WI 53707-7854

Electric Division

Filing Plan for Appropriate Inspection and Maintenance of Electric System RE:

PSC 113.0607 Utility No. 4740

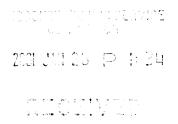
Dear Loock:

Enclosed for filing are three (3) copies of Plymouth Utilities' Preventive Maintenance Plan detailing inspection maintenance schedules, condition rating criteria, corrective action schedules, record keeping procedures and report filing schedules as required under PSC 113.0607.

In short, should there be any questions on this filing, then please direct such to my attention.

Sincerely,

John T. MacKinnon, Manager





PREVENTATIVE MAINTENANCE PLAN PLYMOUTH UTILITIES

FILING DEADLINE FEBRUARY 1, 2001

RECEIVED

(2) 数 2.8 2001

Electric Division

John T. MacKinnon, Manager

Ronald J. Navis, Electrical Superintendent

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January 24, 2001

This plan was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

TABLE OF CONTENTS

		Page
I.	Preventative Maintenance Plan	2
II.	Inspection Schedule and Methods	2
III.	Condition Rating Criteria	3
IV.	Corrective Action Schedule	4
V.	Record Keeping	4
VI.	Reporting Requirements	4
VII.	Distribution – overhead inspection guide	5
VIII.	Distribution – underground inspection guide	8
IX.	Substation - Monthly inspection guide	10
X.	Substation – Annual Inspection Guide	18
XI.	Transmission – Annual Inspection Guide	20
XII.	Transmission – 5 Year Inspection Guide	21
	FORMS	
OVE	RHEAD DISTRIBUTION INSPECTION FORM	7
UND	ERGROUND DISTRIBUTION INSPECTION FORM	9
MON	NTHLY SUBSTATION INSPECTION FORM	13 - 17
ANN	IUAL SUBSTATION INSPECTION FORM	19
ANN	IUAL TRANSMISSION INSPECTION FORM	22

I. Preventative Maintenance Plan

The PSC 113.0607 rule reads;

Appropriate inspection and maintenance: system reliability.

- (1) PREVENTATIVE MAINTENANCE PLAN. Each utility or other person subject to this chapter, including persons who own electric generating facilities in this state who provide service to utilities with contracts of five years or more, shall develop and have in place its own preventative maintenance plan. This section is applicable to electric generating facilities as set forth at s. 194.491(5)(a)(1), Stats. Each plan shall include, among other things, appropriate inspection, maintenance and replacement cycles where applicable for overhead and underground distribution plant, transmission, generation¹, and substation facilities.
- (2) CONTENTS OF THE PLAN. (a) *Performance standard*. The Preventative Maintenance Plan shall be designed to ensure high quality, safe, and reliable service, considering: cost, geography, weather, applicable codes, national electric industry practices, sound engineering judgment and experience.
- 1 PSC staff interpretation is that generation applies to individual generators equal to or greater than 50 MW.

II. Inspection Schedule and Methods:

The purpose of this plan is to maintain or improve the electrical system reliability with the objective of increased municipal loyalty and satisfaction from our constituents. The goals are to meet and exceed the schedules established in this plan.

Exception reporting (inspected equipment not in good condition) will be the method of documentation on all inspection forms.

The scope of this plan is traditional and uses proven maintenance techniques. Unique operating and maintenance philosophies have not been considered. Also, manufacturer defects will be dealt with as they are communicated to this utility.

EVERY

SCHEDULE:	MONTHLY	ANNUAL	5 YEARS
Transmission (≥69Kv and above)		X	X
Substations	X	X	
Distribution (OH & UG)			X

The inspection of Distribution facilities will be by individual substation circuits on a 5-year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included with the plan.

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

- 1. <u>IR</u> infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
- 2. <u>RFI</u> Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
- 3. <u>SI</u> structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
- 4. <u>Clearance</u> refers to proper spacing of conductors from objects, trees and other utility cables.
- 5. <u>EC</u> equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

III. Condition Rating Criteria:

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies.

- 0) Good condition
- 1) Good condition but aging
- 2) Non-critical maintenance required normally repair within 12 months
- 3) Priority maintenance required normally repair within 90 days
- 4) Urgent maintenance required report immediately to the utility and repair normally within 1 week

IV. Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

V. Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

VI. Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a letter documenting the percent of inspections achieved compared to the schedule and a description of maintenance achieved within the scheduled time allowance.

VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE

STRUCTURE

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires
- U Guard/Conduit Condition

EQUIPMENT

- Transformers
 - ✓ Oil Leaks
 - ✓ Bushing Condition
 - ✓ Grounding/Bonding
- Capacitors
 - ✓ Fuses Blown
 - ✓ Bushing Condition
 - ✓ Oil Leaks
 - ✓ Tank Bulged
 - ✓ Switches, Oil, Vacuum
 - ✓ Control Conduit/Wiring
 - ✓ Grounding/Bonding
- Switches GOAB, Inline, Disconnect
 - ✓ Insulator Condition
 - ✓ Operating Handle/Locks
 - ✓ Linkage
 - ✓ Grounding/Bonding
 - ✓ Switch Number
- Cutouts
 - ✓ Insulator Condition
 - ✓ Fuse Size Tag

VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE (con't)

EQUIPMENT (CON'T)

- Arrestor
 - ✓ Insulator Condition
 - ✓ Connections
 - ✓ Ground Lead Disconnection
- Cable Terminators
 - ✓ Insulator Condition
 - ✓ Grounding/Bonding

CLEARANCES

- Ground Line
- Buildings, Bridges, Swimming Pool, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Transmission Lines
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
 - ✓ Clearance From Line
 - ✓ Vines on Poles
 - ✓ Danger Trees

INFRARED SCAN

- Main Three-Phase Feeders
- Priority Overhead Transformer Banks
 - ✓ Bushing Connectors Primary
 - ✓ Bushing Connectors Secondary
 - ✓ General Tank Heating
- Current & Voltage Transformers if Applicable

RFI CHECK

• OH system with AM radio as each circuit is inspected

			Corrected By																	
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Inspected by Sub	COMMENTS	Rating Criteria	0) Good Condition 1) Good Condition 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenance Required																	
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OVERHEAD DISTRIBUTION INSPECTION	MAP AREA		NOITAGO																	
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VIII DISTRIBUTION - UNDERGROUND INSPECTION GUIDE

STRUCTURAL (Exterior & Interior) Transformer, Primary Pedestal, Secondary Pedestal, Switchgear.

- Enclosure Condition
- Level/Leaning
- Security
- Grade/Accessibility (Shrubs, Customer Facilities, Fill/Excavation)
- Numbering
- Voids/Gaps
- Signage Location Number, Warning Sign
- Pad/Vault Condition

EOUIPMENT

- Transformers
 - ✓ Oil Leaks
 - ✓ Bushing Condition
 - ✓ Grounding/Bonding
 - ✓ Elbows
 - ✓ Arrestors
 - ✓ Feed-Through
 - ✓ Cable Condition
 - ✓ Secondary Connections
- Primary Pedestals
 - ✓ Elbows
 - ✓ Junction Condition
 - ✓ Grounding/Bonding
- Secondary Pedestals
 - ✓ Secondary Connections
- Switches URD Switchgear
 - ✓ Insulator Condition
 - ✓ Operating Handle Security
 - ✓ Linkage
 - ✓ Grounding/Bonding
 - ✓ Switch Number/Fuse Size & Number

INFRARED SCAN and RFI CHECK

- Main Three-Phase Feeders (Risers & Switchgear)
- Priority URD Transformer Banks
 - ✓ Bushing Connectors Primary
 - ✓ Bushing Connectors Secondary
 - ✓ General Tank Heating

6

	Corrected By																	
	Date Item Corrected																i	
COMMENTS	Rating Criteria 0) Good Condition 1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required																	
IR / RFI Scan	Priority URD Transformers, Bushings and Tank heating															_	<u> </u>	
IR/R	Main Three Phase Feeders, Risers & Switchgear																L	
	Switches , Signage, Insulators, Security, Linkage, Ground, Bonds				:													
Į.	Secondary Pedestals, Connections															_	<u> </u>	
EQUIPMENT	Primary Pedestals, Elbows, Grounding, Bonds, Junction cond.																	
Ш	Transformers, Leaks, Bushings, Gable Grounding, Bonnections																	
	Pad / Vault Condition										-				_	<u> </u>	1	4
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MAP ARFA	EQUIPMENT																	

UNDERGROUND DISTRIBUTION INSPECTION FORM Date_

IX SUBSTATION - MONTHLY INSPECTION GUIDE

TRANSFORMER MAIN TANK:

- Oil in bushings
- Bushing and arrestor porcelain
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Oil leaks
 - ✓ Main tank
 - ✓ Sample valves
 - ✓ Radiators
- Radiator bank
 - √ warm on top, cool at bottom
- Tank pressure
- Tank oil level
- Temperature gauge
- Cooling fans

TRANSFORMER LTC or VOLTAGE REGULATORS:

- Tank oil level
- Drag hand positions
- Cabinet light
- Operation count
- Tank pressure
- Cabinet heater
- Cabinet contamination

TRANSMISSION CIRCUIT BREAKERS:

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Line and load side disconnect switches
 - ✓ Properly labeled
 - ✓ Aligned properly
- Handles grounded
- Emergency trip button
- Air / Oil compressors
- Air / Oil pressure gauge
- Spring operated mechanism
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

FEEDER CIRCUIT BREAKERS / RECLOSERS

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Line and load side disconnect switches
 - ✓ Labeled properly
 - ✓ Aligned properly
 - ✓ Handles grounded
- Emergency trip button
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

HIGH AND LOW VOLTAGE BUSS WORK:

- Bushing, insulator, arrestor, and support insulators
 - ✓ Chips or cracks
 - ✓ Rust or dirt
- Bird nests
- Potential transformers bushings
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Cable terminators
 - ✓ Leaking fluid
 - ✓ Cracks or chips

MANUAL SWITCHES:

- Properly labeled
- Ground connections
- Positioning and alignment
- Bushing and support insulators
 - ✓ Cracks or chips
 - ✓ Rust or dirt

MOTOR OPERATED SWITCHES:

- OPEN/CLOSED indicator
- Properly labeled
- Cabinet heater
- Operations counter

IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

CONTROL HOUSE/MISCELLANEOUS:

- Clock displays proper time
- AC/DC load center breakers
- Room temperature
- Rodents
- Panels labeled properly
- Panel lights
- Annunciator panel
- Panel meters
- SCADA system RTU
- SCADA alarms
- Position indicators agree
- Relay target information
- Emergency contact directory & dial tone for phone
- Safety Equipment

BATTERY:

- Liquid levels
- Proper float voltage on charger and battery
- Specific gravity in pilot cell
- Personal Protective Equipment
- Connection corrosion
- Leaking cells
- Dated solution in eyewash station

YARD AND FENCE:

- Fire extinguisher charged
- Fence ground connections
- Fence secured
- Security and emergency lights
- Site base and grade
- Standing water
- Warning signs

MONTHL	YS	SUBSTAT		<u> </u>	NSF	PEC	TIC	N FORM							
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DATE:															
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Oil in Bushings															
Bushing and Arrestor															
Oil Leaks															
Main Tank															
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Radiator Bank															
Tank Pressure															
Tank Oil Level															
Temperature Gauge															
Cooling Fans															
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TRANSFORMER LTC or VOLTAGE REGULATORS		RATING	s: 0	1	2	3	4	(Circle One)							
Tank Oil Level															
Drag Hand Positions									<u> </u>						
Cabinet Light															
Operation Count															
Tank Pressure									ļ						
Cabinet Heater															
Cabinet Contamination															
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MONTHLY SUI	BS	STATIO	NI	NS	PE	CT	ION	IFORM	
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HIGH VOLTAGE CIRCUIT BREAKER / CIRCUIT SWITCHER		RATING:	0	1	2	3	4	(Circle One)	
inspected	x		CON	MEN	ITS	DATE CORRECTED	CORRECTED BY		
OPEN/CLOSED Indicator	_								
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Cabinet Light	J								
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Operations Counter	\perp							-	
Bushings and Supports	\perp								
Line and Load Side Disconnect Switches	\bot								
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Emergency Trip Button	1								
Air Compressors - Air / Oil	\bot								
Air Pressure Gauge - Air / Oil	\bot								
Spring Operated Mechanism	_								
Oil Level Gauge	\perp								
Tank Oil Leaks									
Reset Switch	\bot								
Cabinet Contamination	\bot								
Vents Clean	\dashv								
Gas Pressures for GCBs	\bot								
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INSPECTED BY:							
DATE:							
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OPEN/CLOSED Indicator							
CHARGED/DISCHARGED Indicator							
Cabinet Light							
Cabinet Heater							
Operations Counter							
Bushings and Supports							
Line and Load Side Disconnect Switches							
Emergency Trip Button							
Oil Level Gauge							
Tank Oil Leaks	Ш						
Reset Switch							
Cabinet Contamination							
Vents Clean							
Gas Pressures for GCBs							
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Bushing, Insulator, Arrestor, and Supports								
Bird Nests								
Transformer Bushings					,			
Cable Terminators								
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MANUAL SWITCHES	RATING:	0	1	2	3	4	(Circle One)	
Properly Labeled								
Ground Connections		_						
Positioning and Alignment								
Bushings and Supports								
MOTOR OPERATED SWITCHES	RATING:	0	1	2	3	4	(Circle One)	
OPEN/CLOSED Indicator				_				
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Cabinet Heater								ļ
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CONTROL HOUSE/MISCELLANEOUS		RATING:	0	1	2	(Circle One)						
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Clock Displays Proper Time												
AC/DC Load Center Breakers												
Room Temperature												
Rodents												
Panels Labeled Properly												
Panel Lights												
Annunciator Panel												
Panel Meters												
SCADA System RTU												
SCADA Alarms												
Position Indicators Agree												
Relay Target Information												
Emergency Contact Directory &												
Dialtone for Phone												
Safety Equipment												
BATTERY		RATING:	0	1	2	3	4	(Circle One)				
Liquid Levels												
Proper Float Voltage on Charger & Battery												
Specific Gravity in Pilot Cell												
Personal Protective Equipment												
Connection Corrosion												
Leaking Cells												
Dated Solution in Eyewash Station												
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YARD & FENCE		RATING:	0	1	2	3	4	(Circle One)	_			
Fire Extinguisher Charged												
Fence Ground Connections												
Fence Secured												
Security and Emergency Lights												
Site Base and Grade												
Standing Water												
Warning Signs												

17

X Substation - Annual Inspection Guide

- Check equipment for level
- Check condition of concrete pads
- Perform oil and DGA analysis
- Battery
 - ✓ Intercell strap resistance ✓ Individual cell voltages

 - ✓ Cell specific gravity
- Nameplate legible
- Equipment paint condition
- Proper equipment ID labels
- IR / RFI scans and checks

19

ANNUAL SUBSTATION INSPECTION FORM

XI TRANSMISSION – ANNUAL INSPECTION GUIDE

STRUCTURE

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires

EQUIPMENT

- Switches GOAB, Disconnect
 - ✓ Insulator Condition
 - ✓ Operating Handle/Locks
 - ✓ Linkage
 - ✓ Grounding/Bonding
 - ✓ Switch Number
- Arrestor
 - ✓ Insulator Condition
 - ✓ Connections

CLEARANCES

- Ground Line
- Buildings, Bridges, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
 - ✓ Clearance From Line
 - ✓ Vines on Poles
 - ✓ Danger Trees

XI TRANSMISSION - ANNUAL INSPECTION GUIDE (con't)

RFI CHECK

- Splices
- Connectors
- Dead Ends
- Switches
- Structures

XII TRANSMISSION - 5 YEAR INSPECTION GUIDE

IR SCAN

- Splices
- Connectors
- Dead Ends
- Switches

ANNUAL TRANSMISSION INSPECTION FORM

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Sub

Inspected by_

Date

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	Corrected										
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COMMENTS	Rating Criteria Discourse Condition 1) Good Condition but aging 2) Non-critical Maintenance Required Maintenance Required 4) Urgent Maintenace Required										
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ARA	Building Clearances										
CLE	Ground Line Clearances										
	Tree Trimming										
EQUIPMENT	eresters										
EQUIF	Switches										
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	Conductor and Ties	 									
	Customer Equipment										
	Signs, Loc#, Warning										
焬	Guy Bond, Insulator										
STRUCTURE	Down Guys and Markers						 				
2	Grounds Intact, Molding										
STF	Pole Steps										
	Soil Conditions										\neg
	Insulators, DE, Pin	 									\dashv
	Crossarm Condition		 								\dashv
	Pole Condition/Leaning										\dashv
MAP AREA	LOCATION										